

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

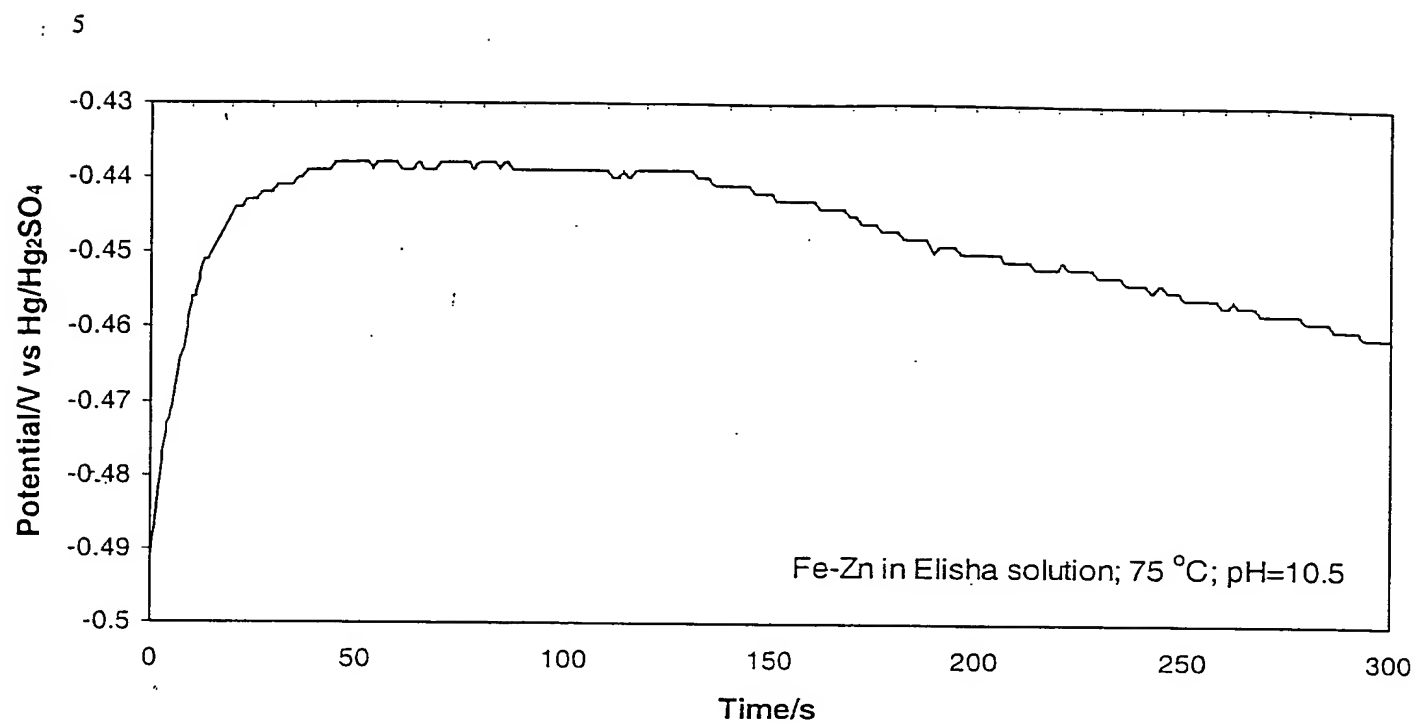


Figure 1: Open Circuit potential

10

15

20

25

30

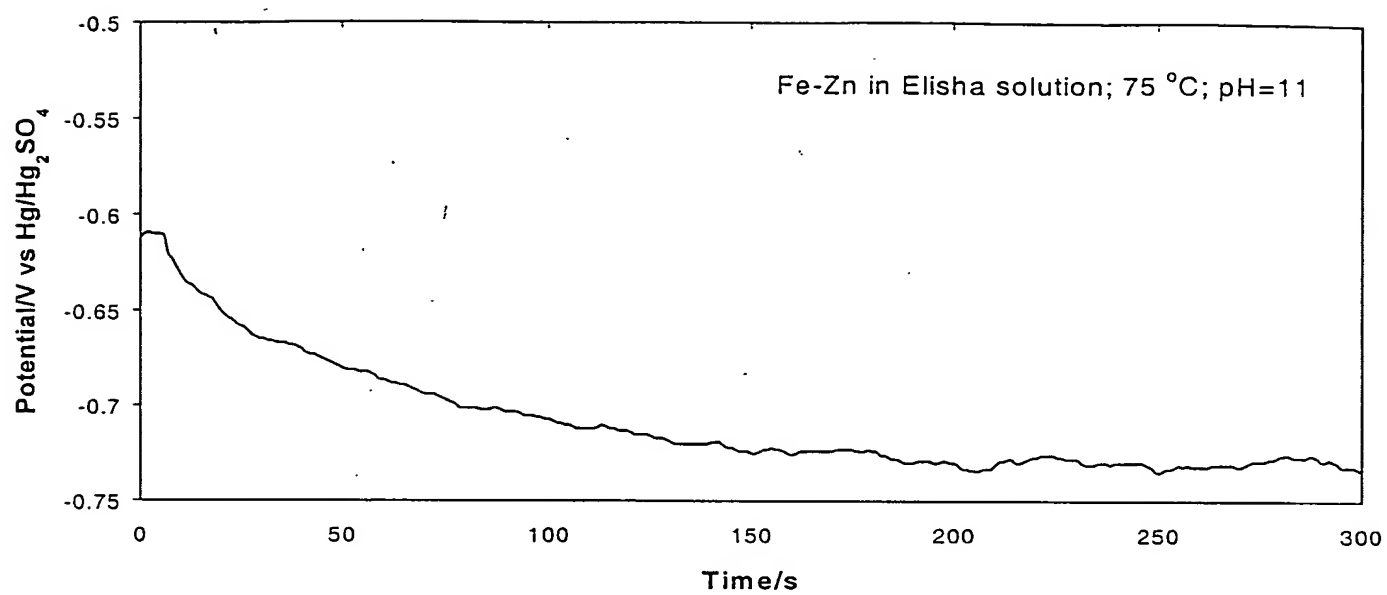


Figure 2: Open Circuit Potential

5

10

15

20

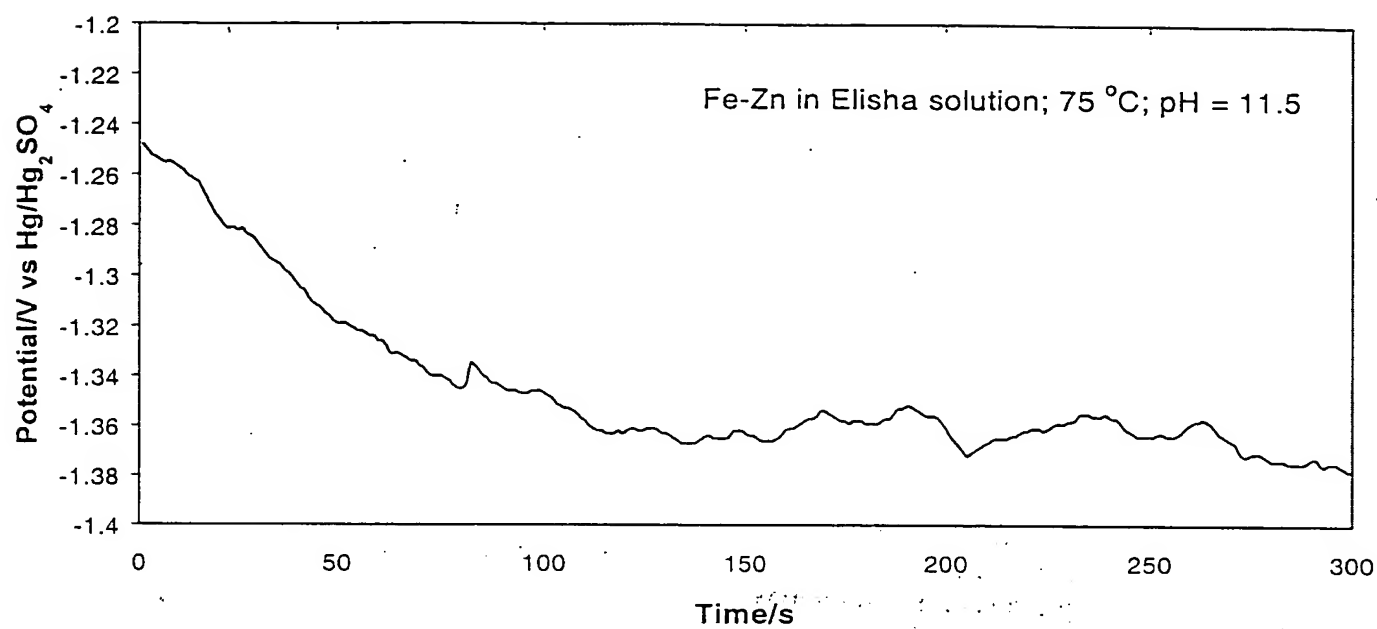


Figure 3: Open Circuit Potential

10

15

20

25

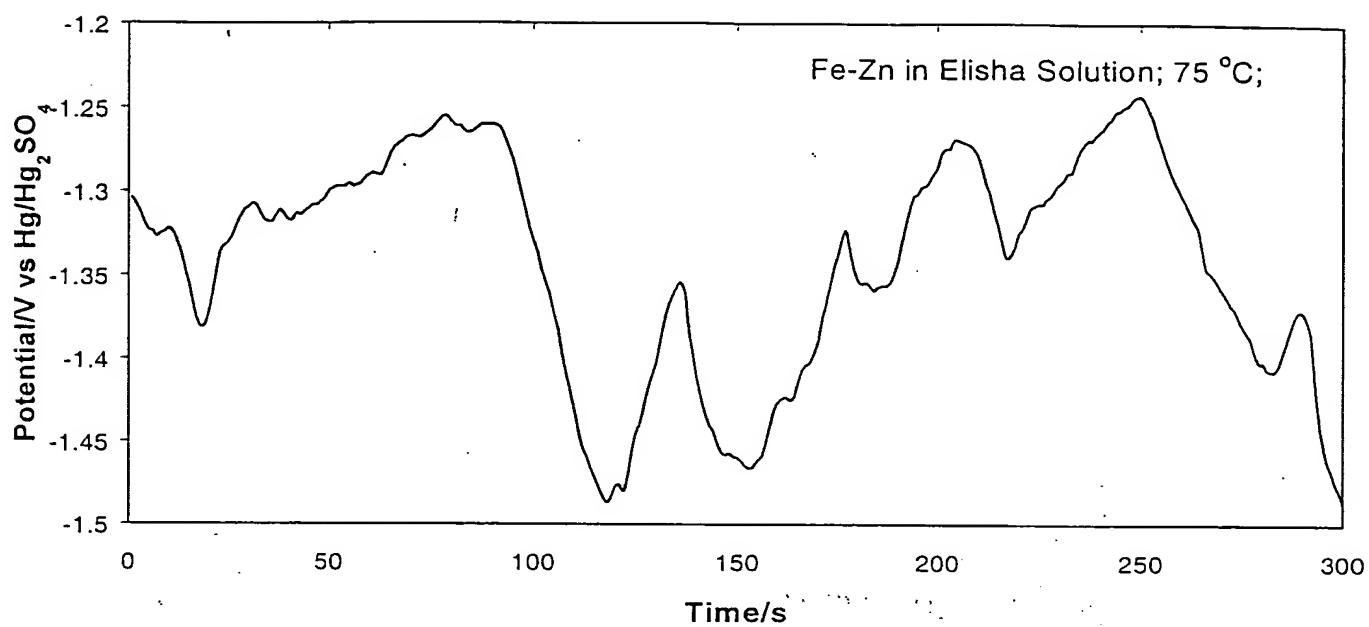


Figure 4: Open Circuit Potential

5

10

15

20

25

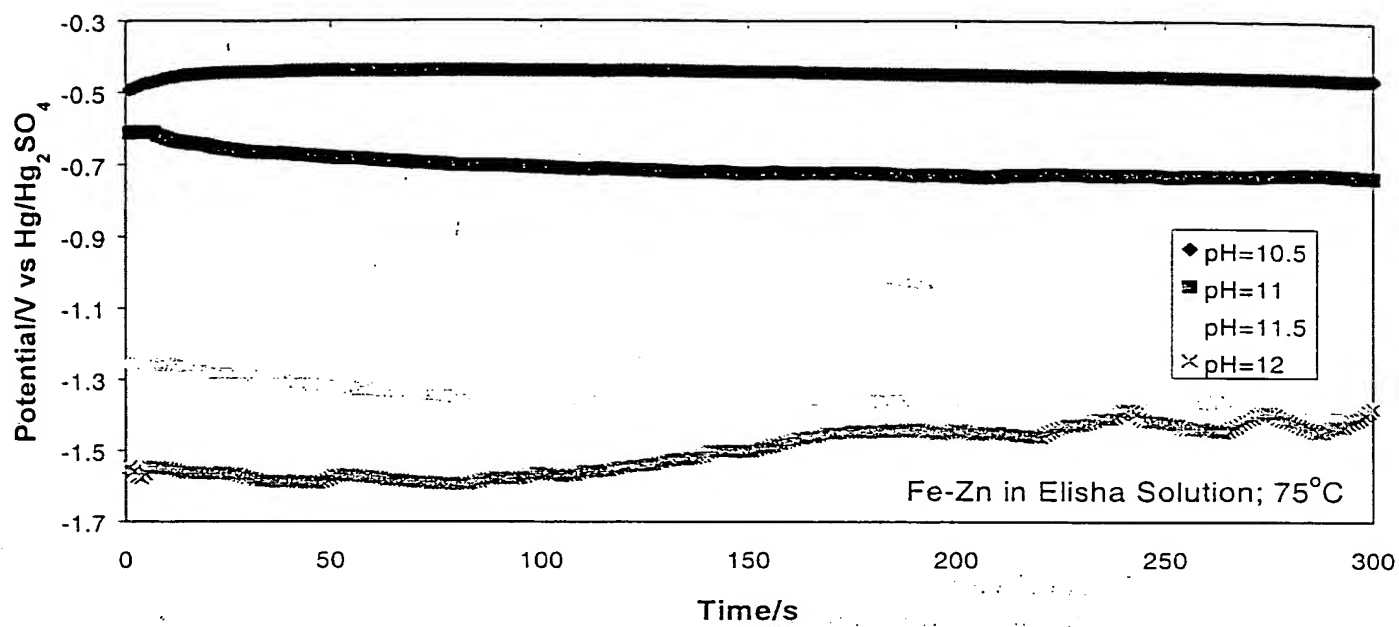


Figure 5: Open Cirrcut Potential

5
10
15
20
25

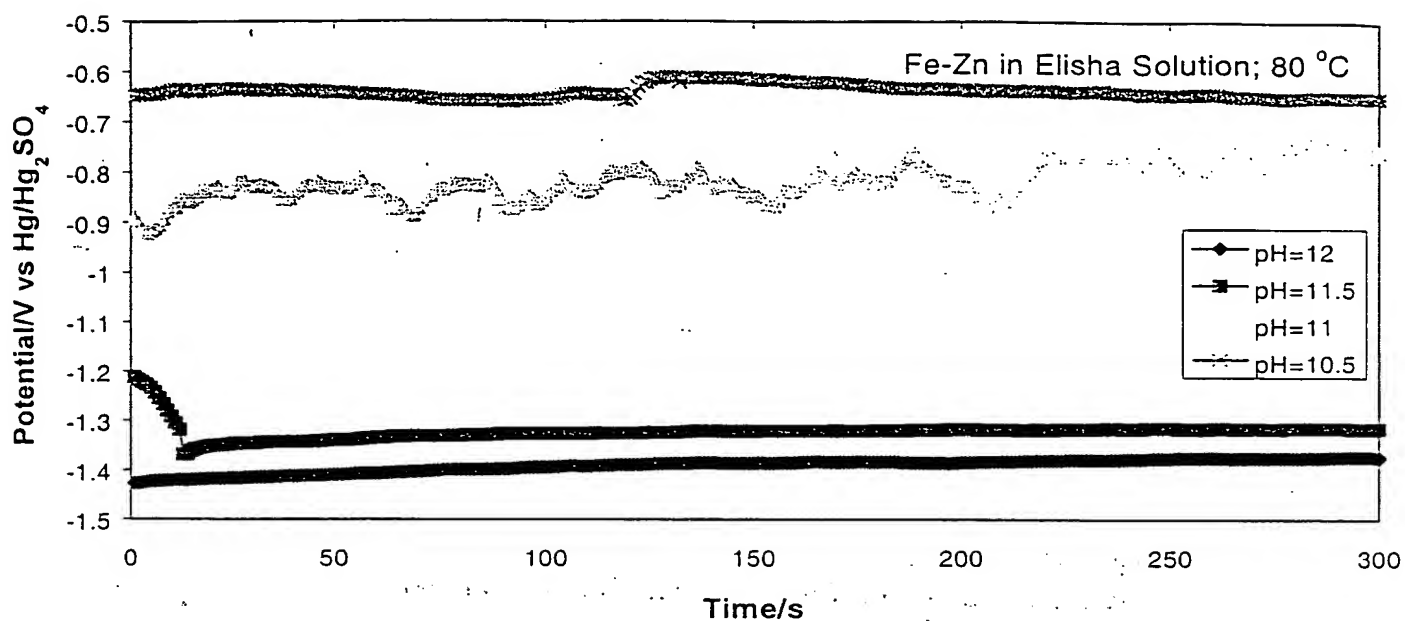


Figure 6: Open Circuit Potential

5
10
15
20

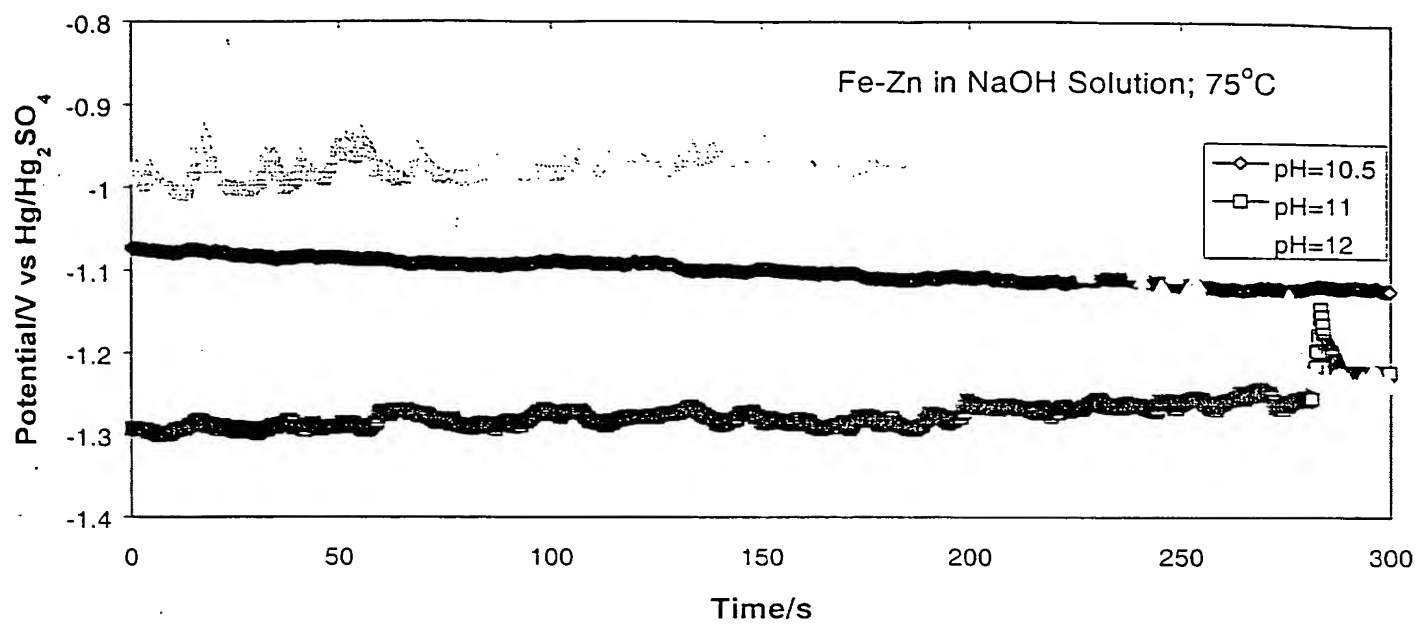
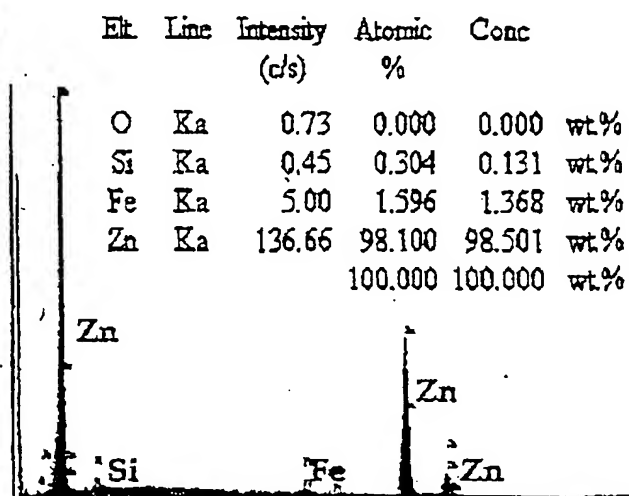


Figure7: Open Circuit Potential

SEM & EDAX Analysis of Samples Rinsed Immediately and Rinsed Later

Rinsed Immediately



Magnification - 1000 X

Rinsed Later

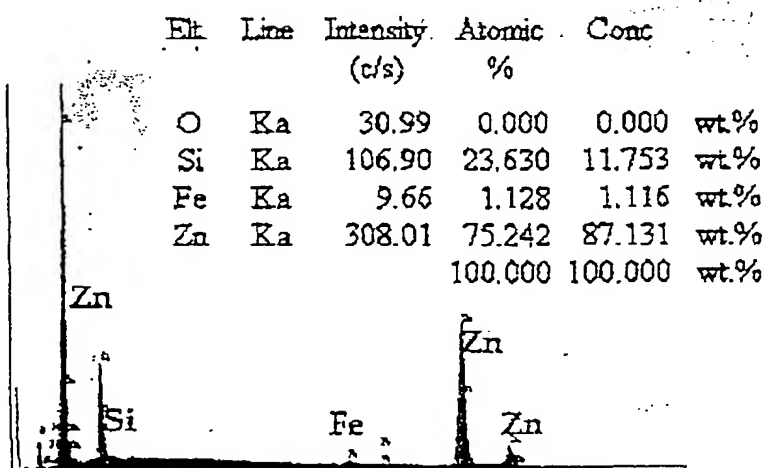


Fig. 8

Comparison of Si Content for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride

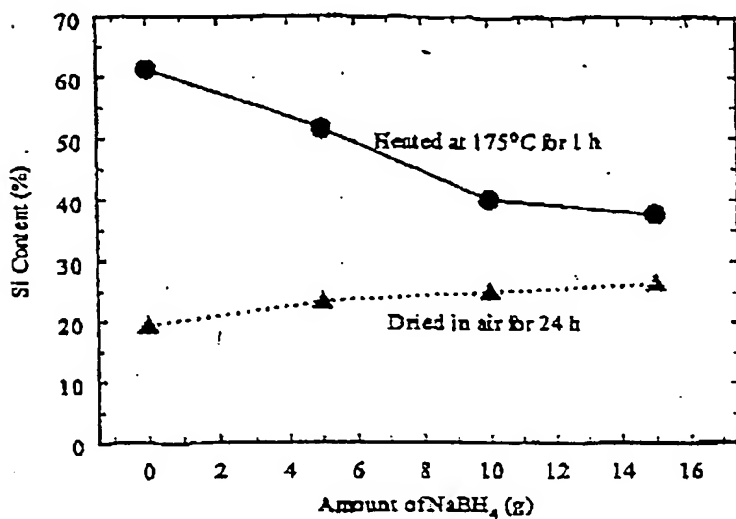


Fig. 9

Drop in Corrosion Resistance for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours and left in water for 1 week

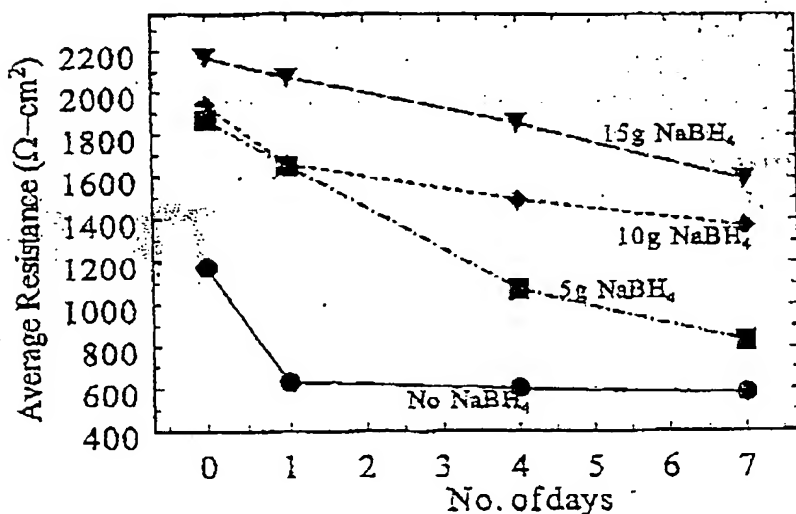


Fig. 10

Drop in Corrosion Resistance for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were dried at 175° C for 1 hour and left in water for 1 week

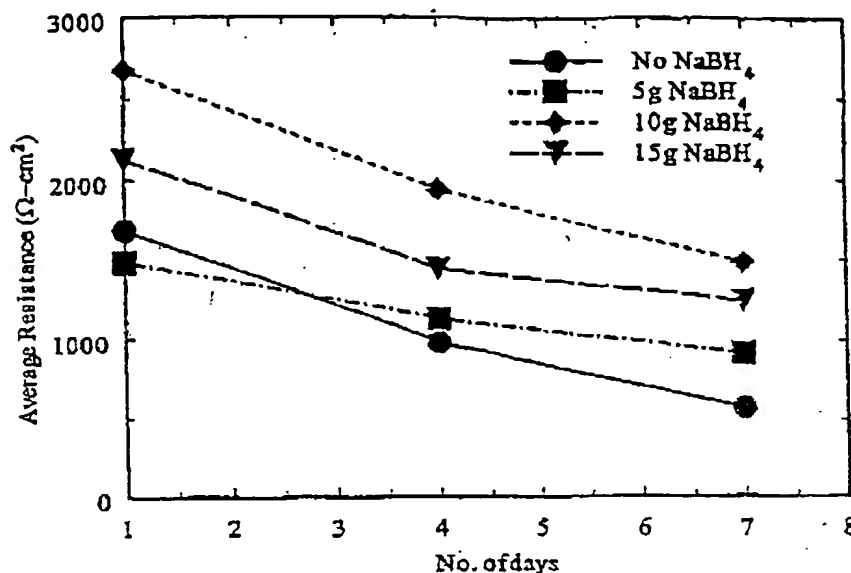


Fig. 11

CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours

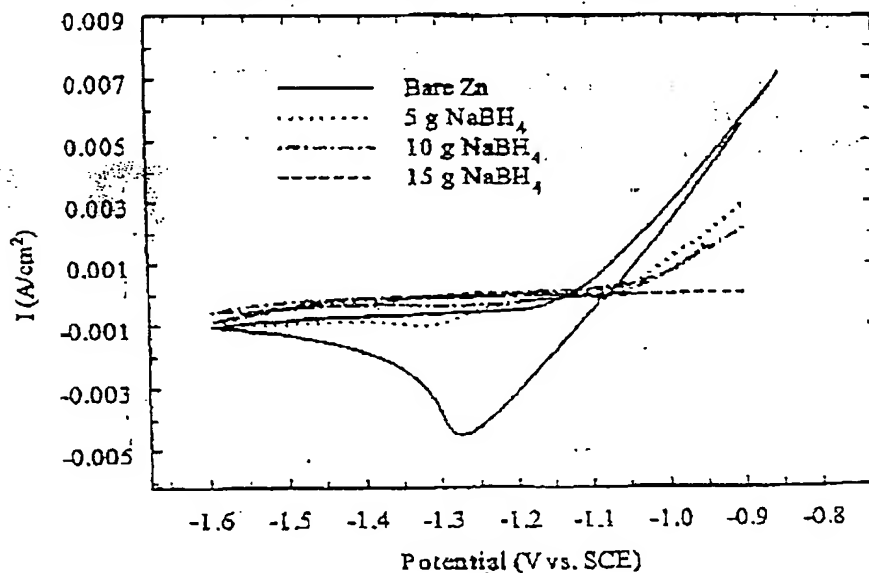


Fig. 12

Inhibiting Efficiency obtained from CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours

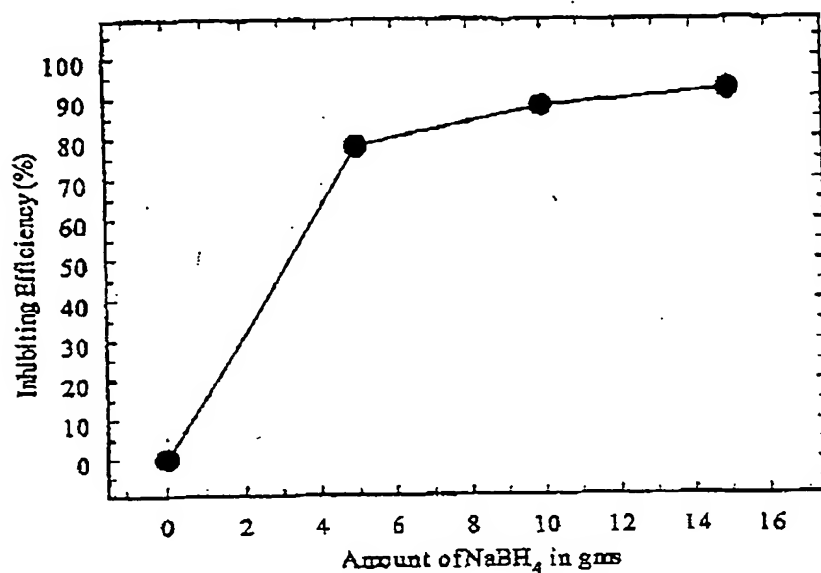


Fig. 13

CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were heated at 175°C for 1 hour

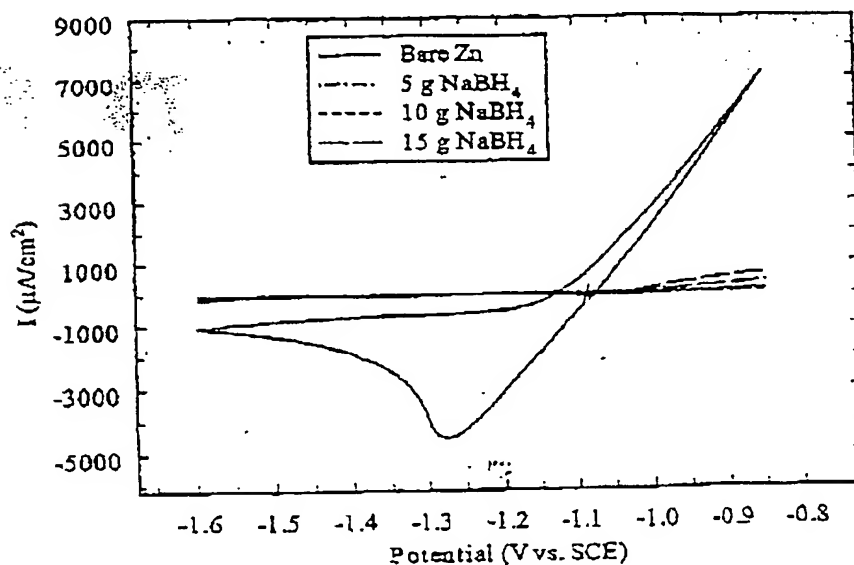


Fig. 14

Inhibiting Efficiency obtained from CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were heated at 175° C for 1 hour

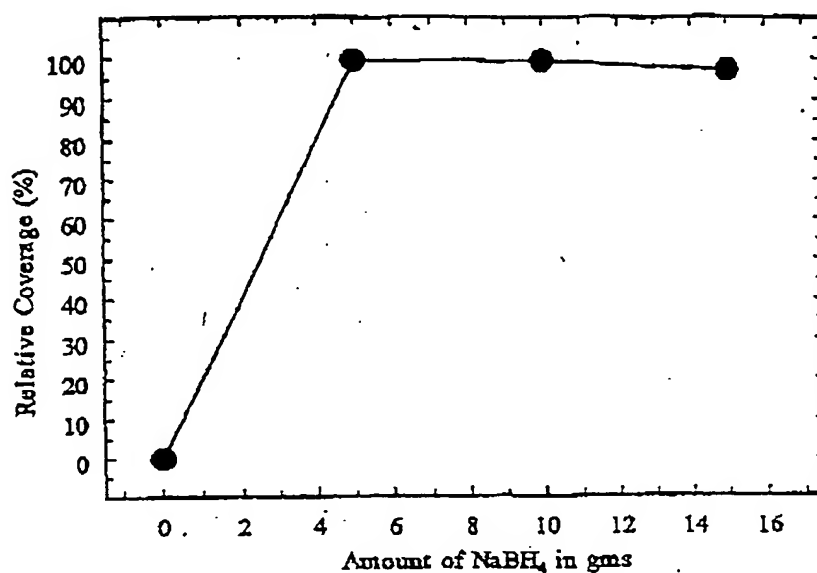


Fig. 15

CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours and left in water for 1 week

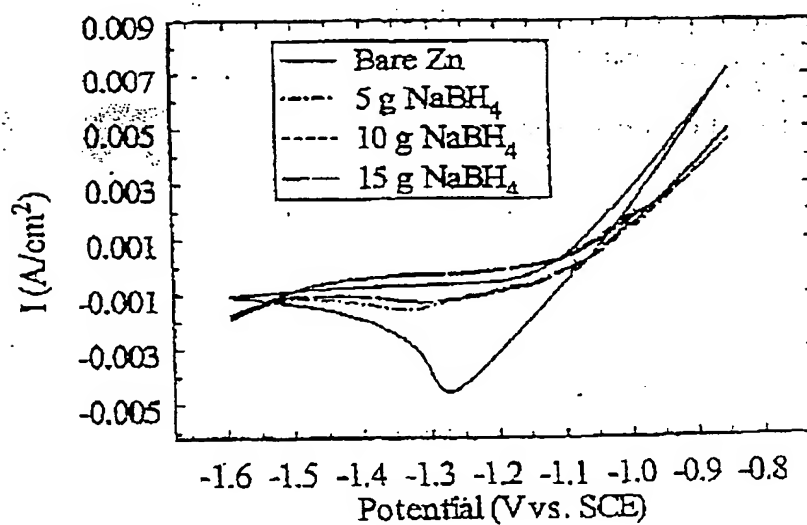


Fig. 16

Change in the Inhibiting Efficiency for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
 Samples were dried in air for 24 hours and left in water for 1 week

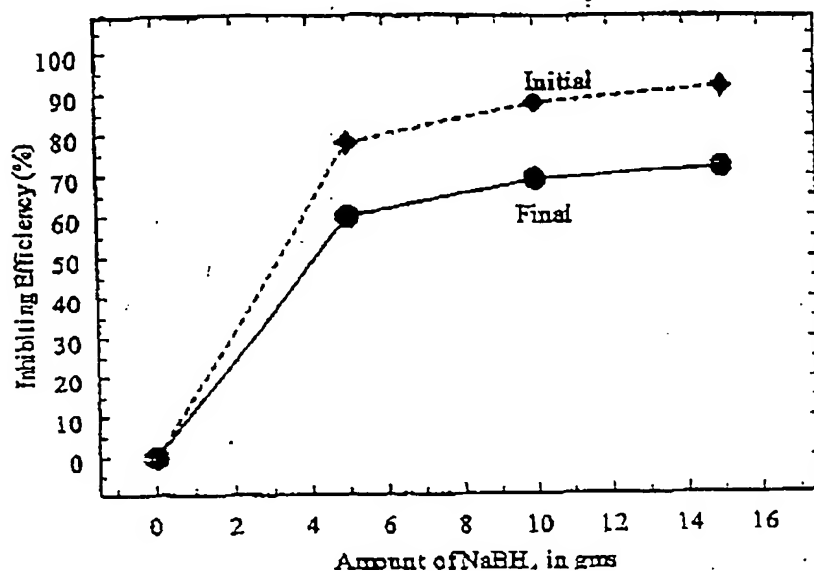


Fig. 17

CVs for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
 Samples were dried at 175° C for 1 hour and left in water for 1 week

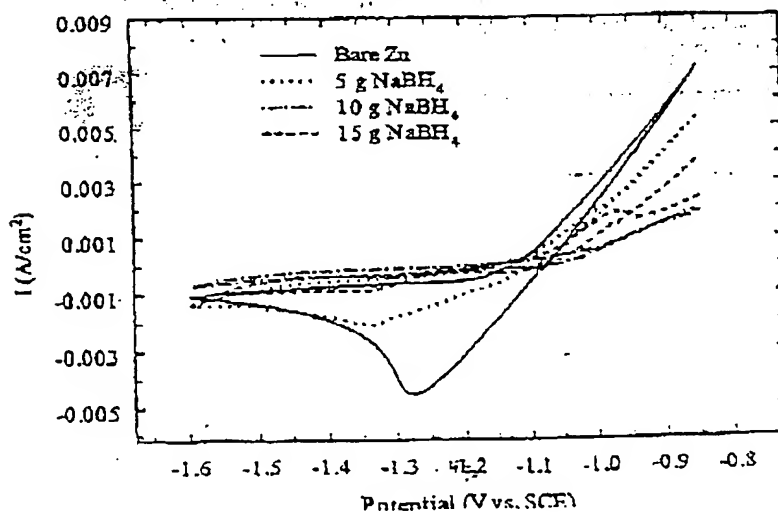


Fig. 18

Change in the Inhibiting Efficiency for samples mineralized in 1:3 PQ solution with no current and with different amounts of Sodium Borohydride
 Samples were dried at 175° C for 1 hour and left in water for 1 week

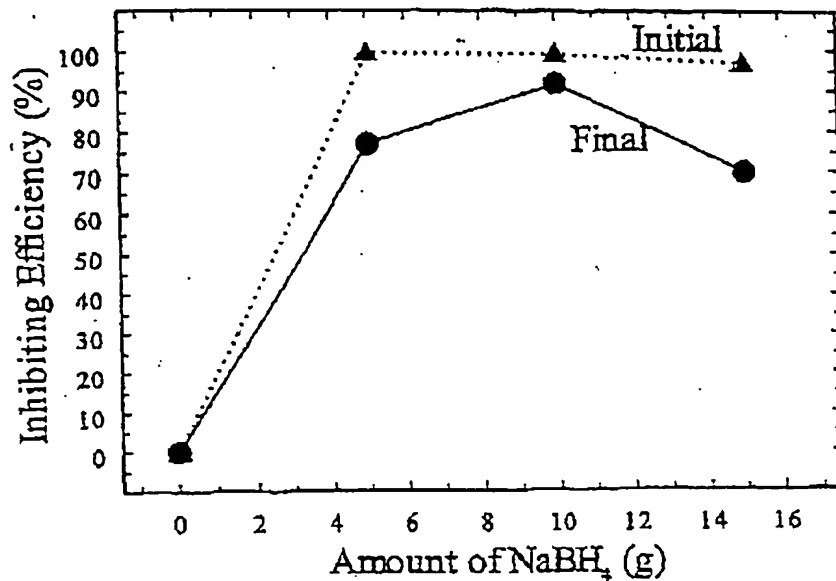
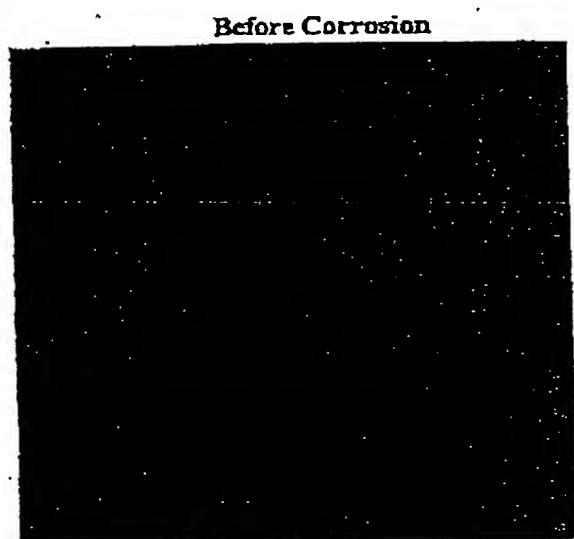


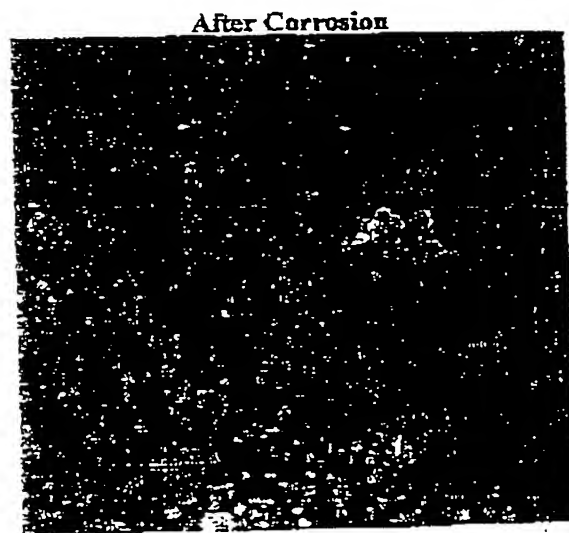
Fig. 19

Change in Morphology for sample mineralized in 1:3 PQ solution with no current and with 10 g/L of Sodium Borohydride
 Samples were heated at 175° C for 1 hour



2. μm

Magnification: 2000 X



Magnification: 500 X

Fig. 20

Change in Si concentration for samples mineralized in 1:3 PQ solution
with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours and left in water for 1 week

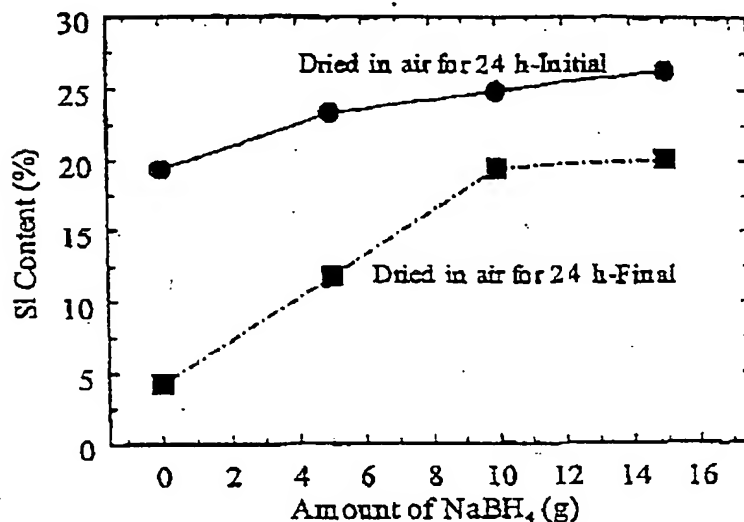


Fig. 21

Change in Si concentration for samples mineralized in 1:3 PQ solution
with no current and with different amounts of Sodium Borohydride
Samples were dried in air for 24 hours and left in water for 1 week

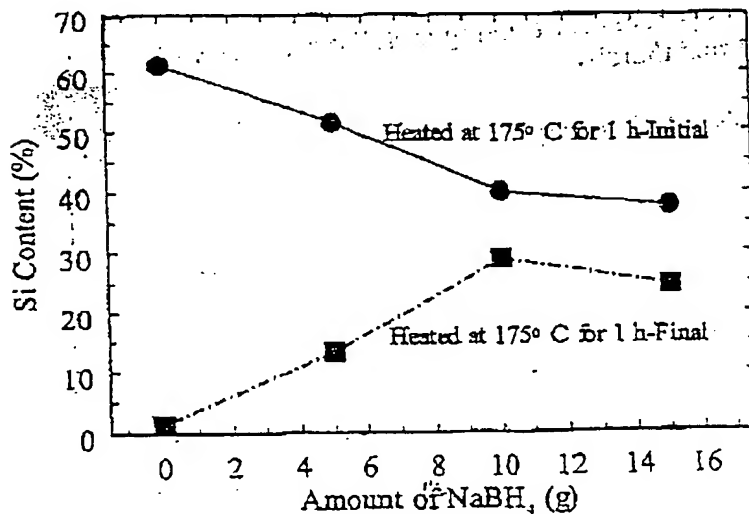


Fig. 22